

CHILLUM CHEVRON GASOLINE RELEASE INVESTIGATION

By

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Gasoline Release Source



Mixed Gasoline/PERC Sources



Impacted Subdivision



Typical Duplex Home



Former Chevron Facility No. 122208
5801 Riggs Road
Chillum, Maryland

Legend

- Monitoring Well
- Groundwater and/or Soil Boring Location
- Dual-Phase Extraction Well
- Abandoned Dual-Phase Extraction Well
- Soil Vapor Extraction Well
- Abandoned Soil Vapor Extraction Well
- Soil Vapor Sample Location
- Soil Vapor Well
- Basement Sump
- Property Line
- Prince George's County/
Washington D.C. Boundary
- Former Chevron Facility No. 122208
Property Line
- Benzene 5 μ g/L (Geoprobe Data)
- MTBE 20 μ g/L (Geoprobe Data)
- Clay Body; Limits Dashed Where Inferred
- Sanitary Sewer Manhole
- Sanitary Sewer Pipe
- Storm Drain Manhole
- Storm Drain Pipe
- Topography Contours (2 foot intervals)

Date Prepared: June 21, 2004

Scale: 1" = 80'

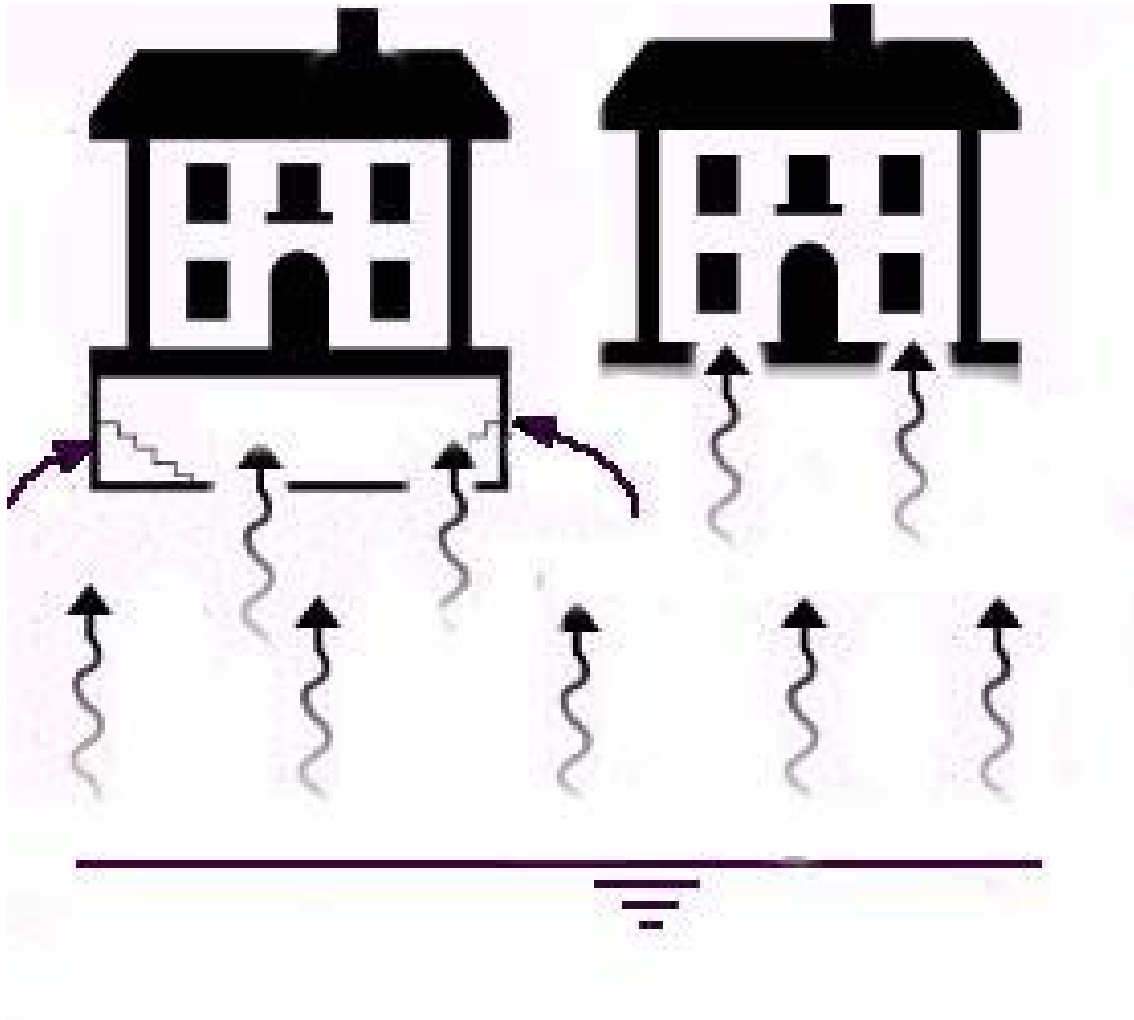


Map Projection:
Maryland State Plane, North
American Datum 1983, Feet
Data Source:
Aerial Photo furnished by DC GIS

Maryland / DC Line

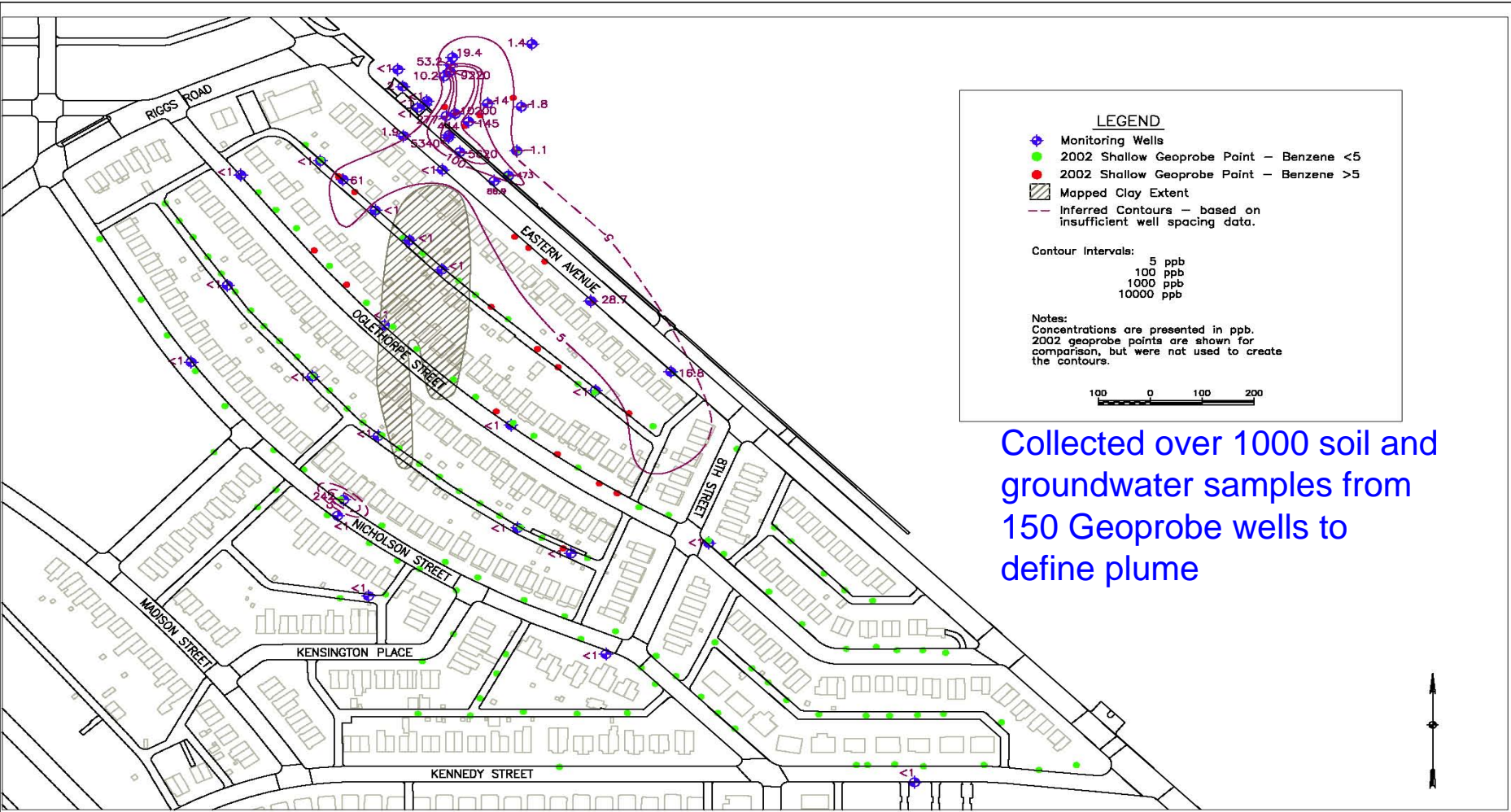


Health Concern – Vapor Intrusion



3-Step Sampling Protocol

- Step 1 - Sample groundwater to define the extent of the plume
- Step 2 - Sample soil vapor by selecting properties within the plume
- Step 3 - Sample indoor air by selecting properties where soil vapor data exceed thresholds or where basement is vulnerable to contaminated groundwater intrusion



Collected over 1000 soil and groundwater samples from 150 Geoprobe wells to define plume

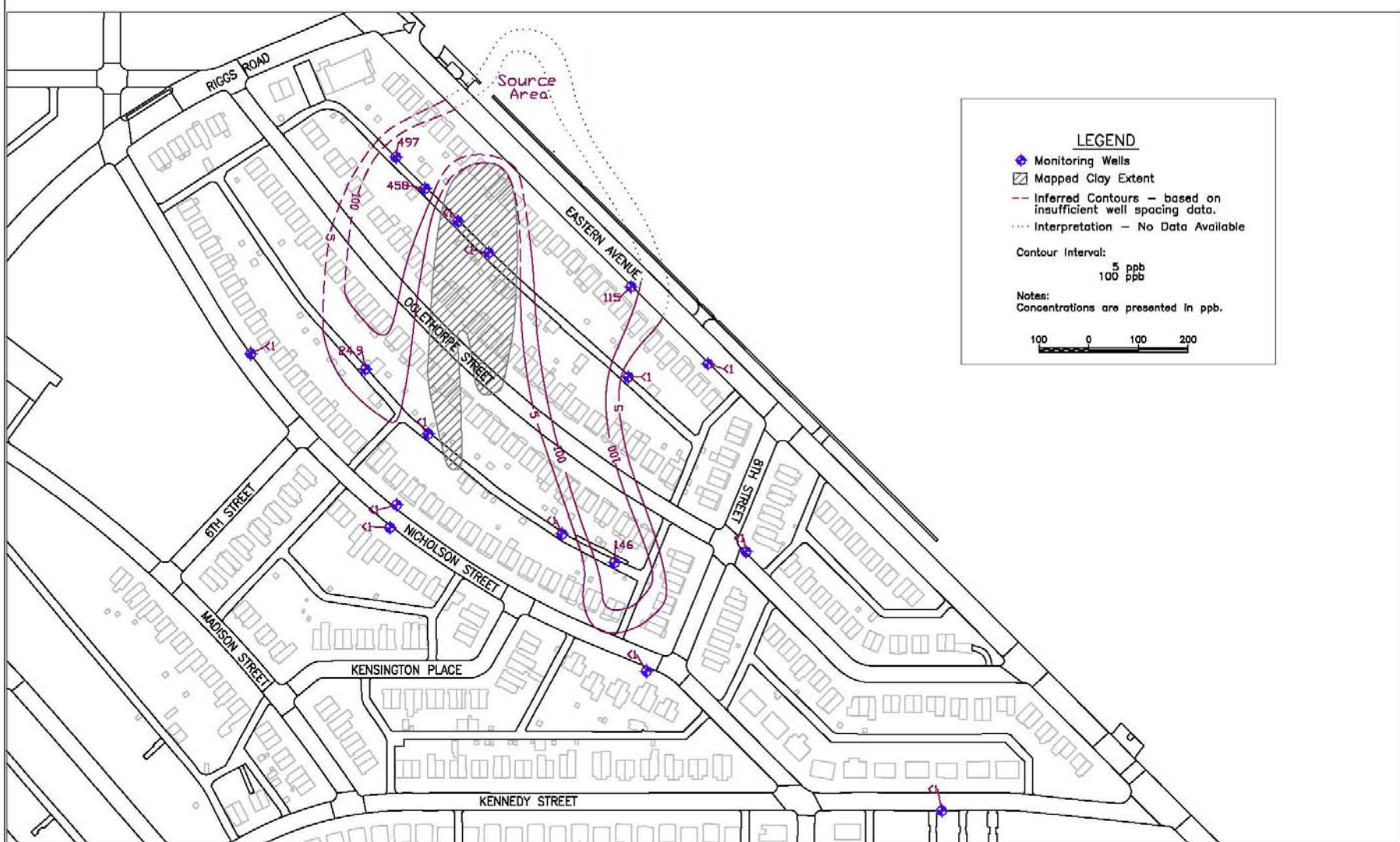


U.S. Army Corps of Engineers
10 S. Howard Street
Baltimore, Maryland 21040

PREPARED BY: PAD DATE: December 2004

CHILLUM

Benzene Shallow Plume
May-June 2004 Data from Shallow Wells



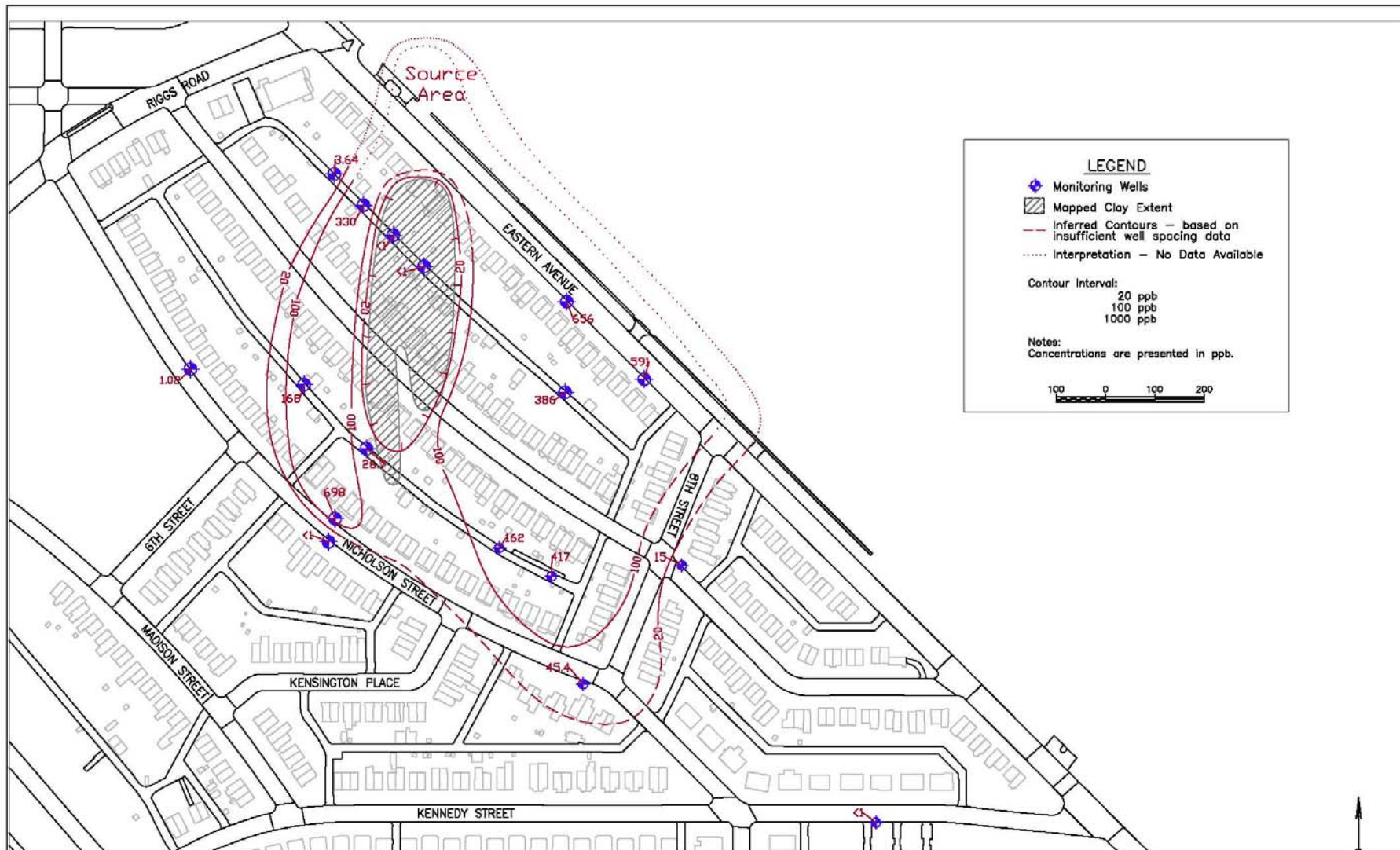
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CHILLUM

Benzene Deep Plume
Maximum September 2005 Data from Deep Wells



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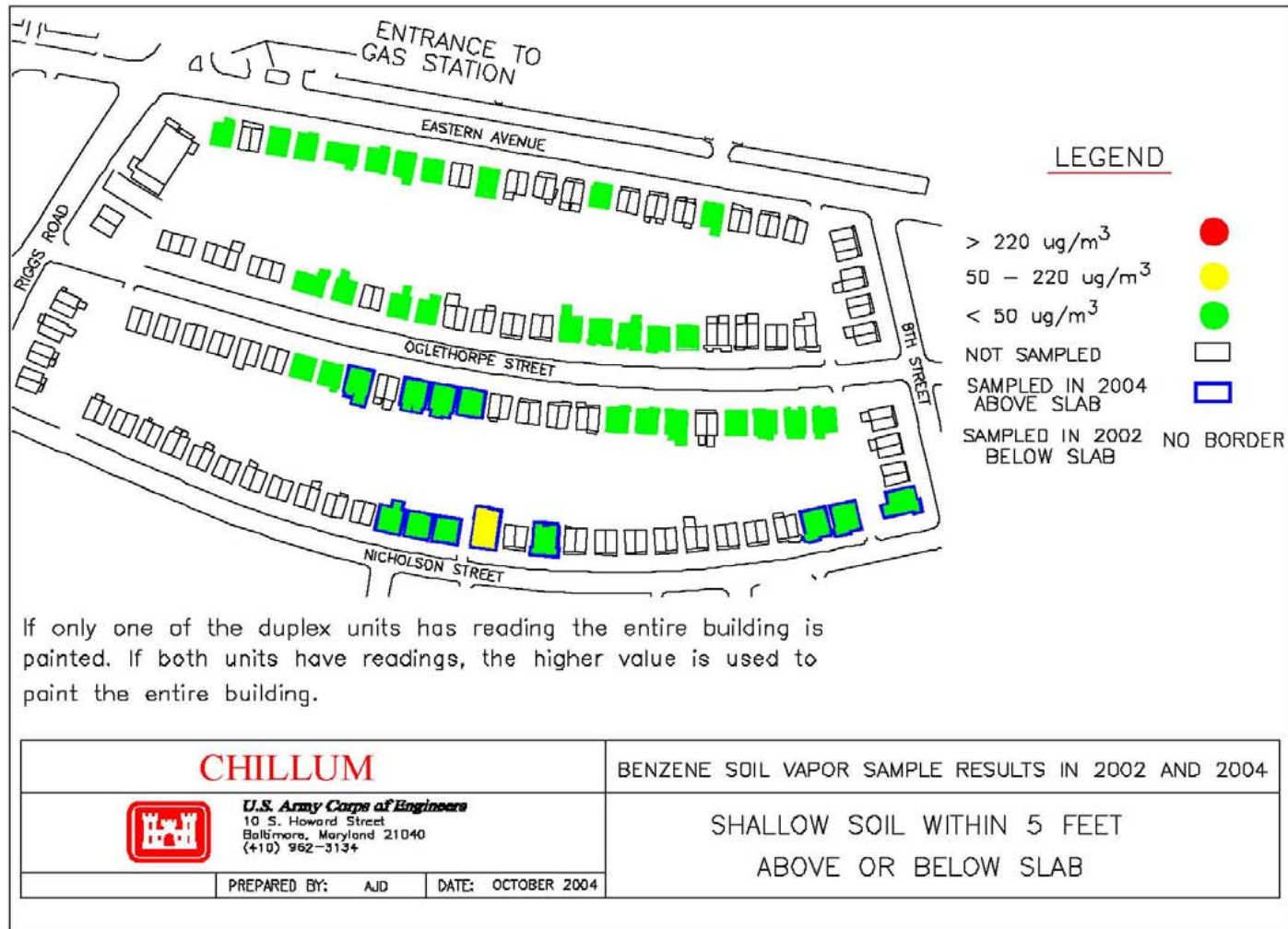
PREPARED BY: PAD

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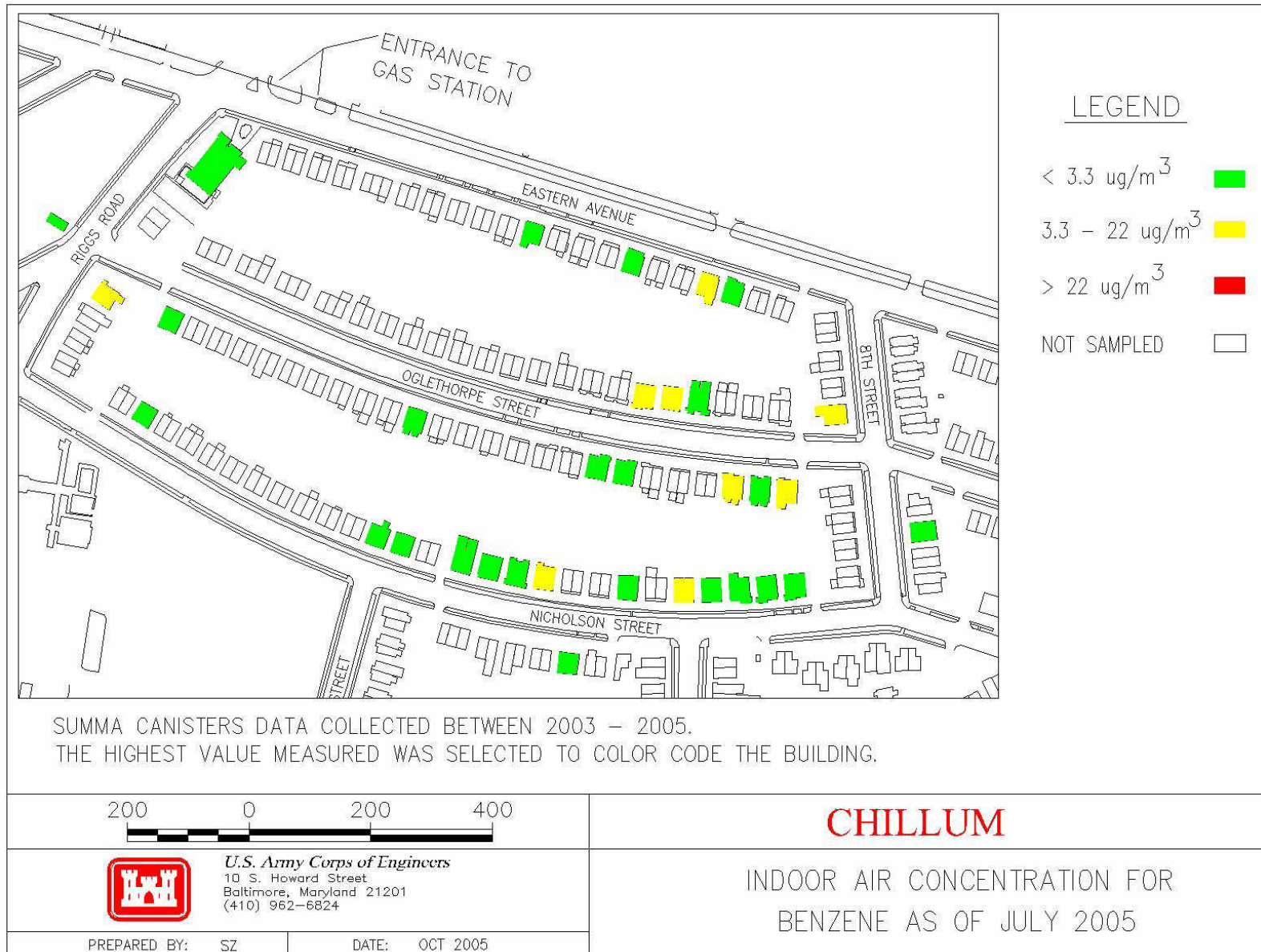
CHILLUM

MTBE Deep Plume
Maximum September 2005 Data from Deep Wells

90 Homes Sampled for Soil Vapor



54 Homes Sampled for Indoor Air



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